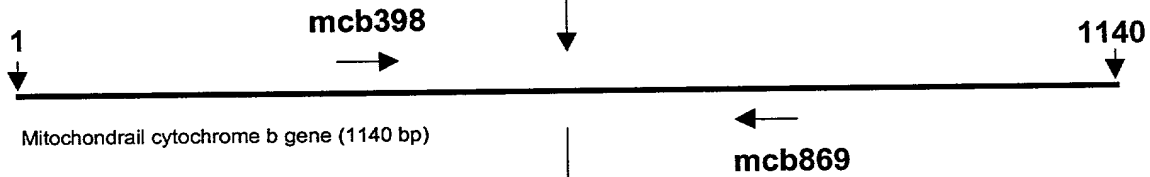




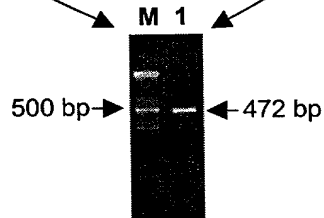
Confiscated biological material of unknown animal origin (*i.e. adulterated flesh*)



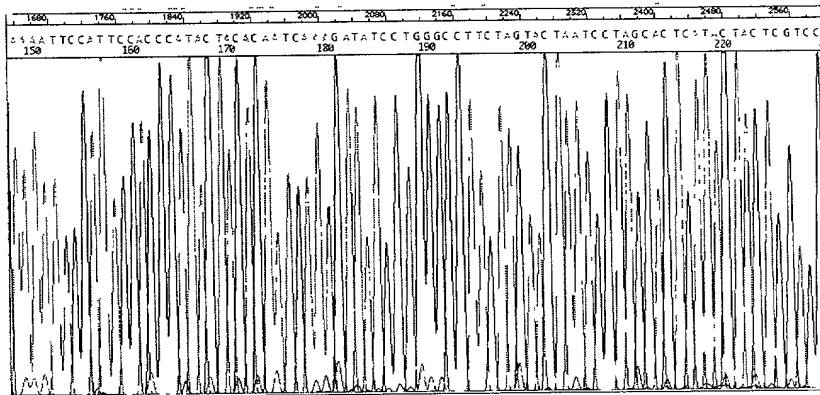
DNA



PCR amplicons (472 bp)



Sequencing using 'ABI Prism 3700' DNA Analyzer



Revealed sequence (328 bp)

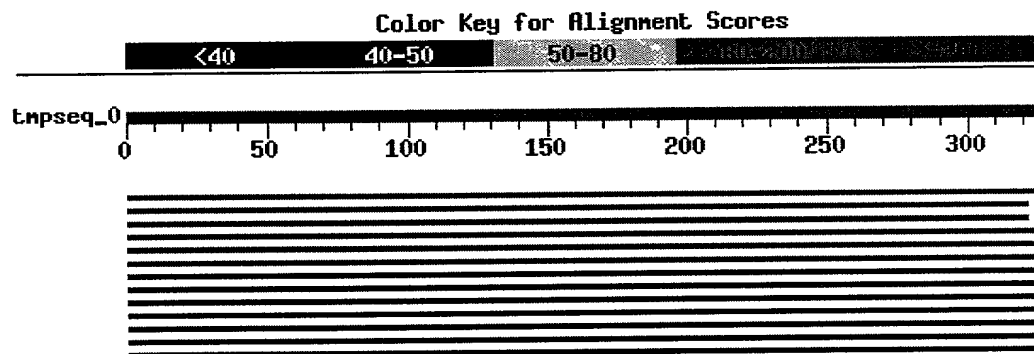
TGAATCTGAGGAGGCTTCTCAGTAGACAAAGCTACCCTGACAC
GATTCTTTGCCTTCCACTTCATCCTTCCATTTATCATCTCAGC
TCTAGCAGCAGTCCACCTCCTATTCCCTTACGAGACAGGATCT
AACAACCCCTCAGGAATAGTATCCGACTCAGACAAAATTCCAT
TCCACCCATACTACACAATCAAAGATATCCTGGGCCTTCTAGT
ACTAATCCTAGCACTCATACTACTCGTCCTATTCTCACCAGAC
CTGTTAGGAGACCCCGATAACTACATCCCTGCCAACCCTCTAA
ATACCCCTCCCATATCAAGCCTGAAT

Figure 1 a

Sequence of cytochrome b gene (328 bp) revealed from biological material of unknown origin i.e. '*adil.flesh*' using primers '*mcb398*' and '*mcb869*'

Homology search in '*nr*' database using '*BLAST*'

<http://www.ncbi.nlm.nih.gov/BLAST/>



Sequences producing significant alignments:	Score (bits)	E Value
gb AY005809.1 <i>Panthera pardus</i> cytochrome b gene, partial c...	603	e-170
gb AF053054.1 AF053054 <i>Panthera tigris sumatrae</i> isolate Su1...	527	e-147
gb AF053053.1 AF053053 <i>Panthera tigris tigris</i> isolate B7 mi...	527	e-147
gb AF053050.1 AF053050 <i>Panthera tigris corbetti</i> isolate C2 ...	476	e-132
gb AF053049.1 AF053049 <i>Panthera tigris corbetti</i> isolate C1 ...	476	e-132

Selection of reference animals based on above information and further analysis using primers '*mcb398*' and '*mcb869*'

Multiple sequence alignments using '*Autoassembler*'

```

225          250          275          300          325
CTAG~T~CTAAT~CCTAGCAC~TCAT~ACT~AC~T~TGT~C~CTATTCTCACCAGACCTGTTGGG~GAT~CCC~GAT~AACTA~A~C~CC~GCCA~CCCC~T~
gz2L  -CTAG-TACTAAT-CCTAGCAC-TCAT-ACT-AC-TCGT--C-CTATTCTCACCAGACCTGTT-GGGAGACCCC-GATAACTACAT-C-CCC-GCCAAACCC-T~
bh225t -CTAG-TACTAAT-CCTAGCAC-TCAT-ACT-AC-TCGT--C-CTATTCTCACCAGACCTATTAGGG-GACCCC-GATAACTACAT-C-CCC-GCCAAACCC-T~
dz14sl -CTAG-TACTAAT-CCTAGCAC-TCAT-ACT-AC-TCGT--C-CTATTCTCACCAGACCTATTAGGG-GACGCC-GATAACTACAT-C-CCC-GCCAAACCC-T~
chimss 1-TTCC--TT--T-CCTC-CTTATCCT-AATGACAT--TAACACTATTCTCACCAGACCTCCTGGGC-GAT-CCAGACAACATA--C-CCTAGCTAACCCCT~
gz22cl -CTAG-TCTAATTCT-AGCGC-TCAC-ACT-TTGT--T-CTATTCTCCCCAGACCTACTAGGA-GA-CCCTGACAA-T-TACACTCCC-GCCAAACCC-T~
sb222al -CTAG-TACTAAT-CTTAGCAC-TCAT-ACT-AC-TCGT--C-CTATTCTCACCAGACCTATTAGGA-GATCCC-GACAACATAC-C-CCC-GCCAAATCC-T~
humsk 1CTTC-T-CT--T-CCTT-CTC-TCCTT~ATGACAT--TAACACTATTCTCACCAGACCTCCTAGGC-GAC-CCAGACAATTATA--C-CC~AGCC~AACCCCT~
bh220wt -CTAG-TACTAAT-CCTAGCAC-TCAT-ACT-AC-TCGT--C-CTATTCTCACCAGACCTATTAGGG-GACCCC-GATAACTACAT-C-CCC-GCCAAACCC-T~
gz3L  -CTAG-TACTAAT-CCTAGCAC-TCAT-ACT-AC-TCGT--C-CTATTCTCACCAGACCTGTT-GGGAGACCCC-GATAACTACAT-C-CCC-GCCAAACCC-T~
gz1L  -CTAG-TACTAAT-CCTAGCAC-TCAT-ACT-AC-TCGT--C-CTATTCTCACCAGACCTGTT-AGGAGACCCC-GATAACTACAT-C-CC~GCCA~ACCC-T~
adil flesh CTAG-TACTAAT-CCTAGCAC-TCAT-ACT-AC-TCGT--C-CTATTCTCACCAGACCTGTT-AGGAGACCCC-GATAACTACAT-C-CC~GCCA~ACCC-T~

```

Figure 1 b

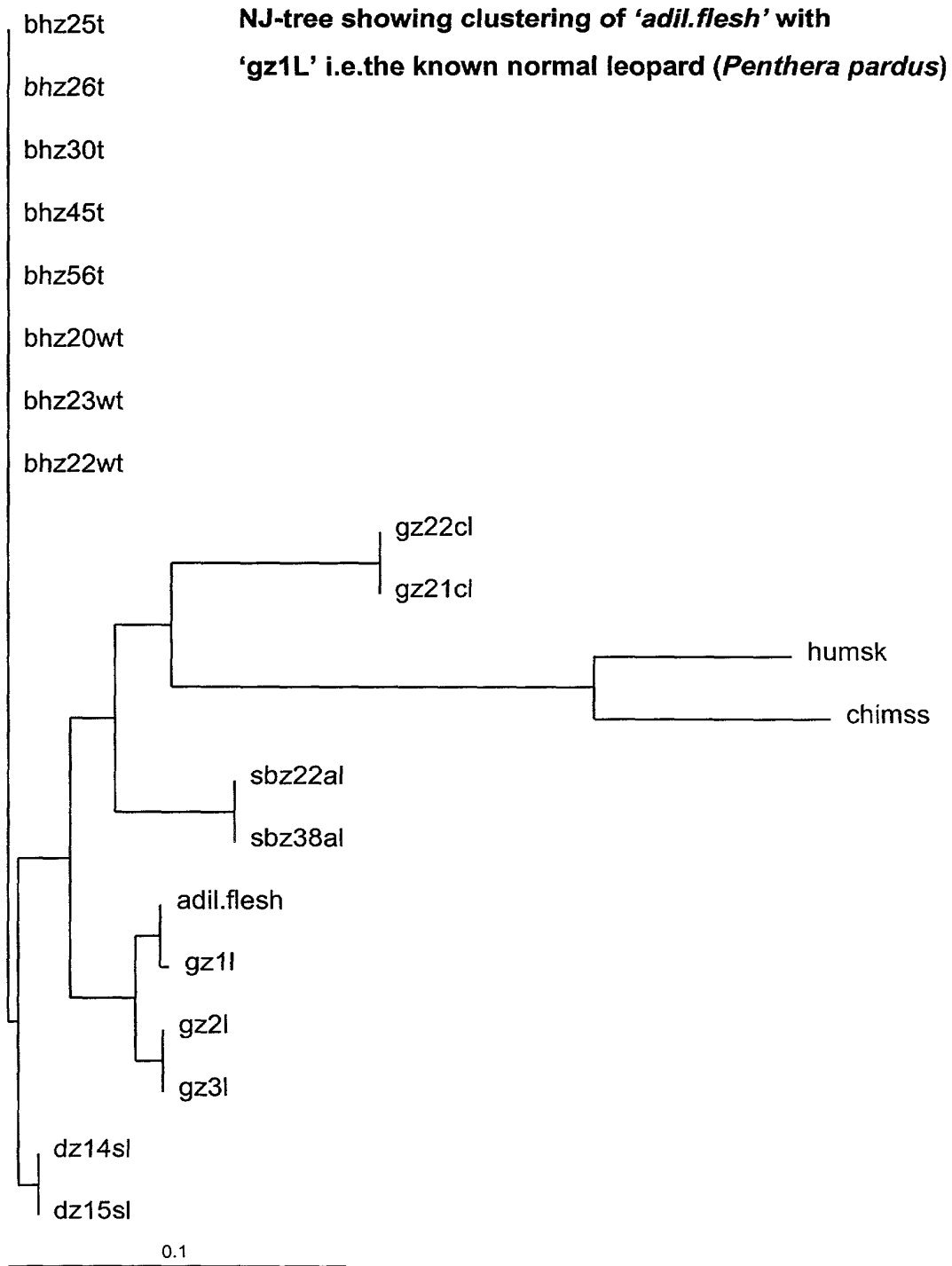


Figure 1c

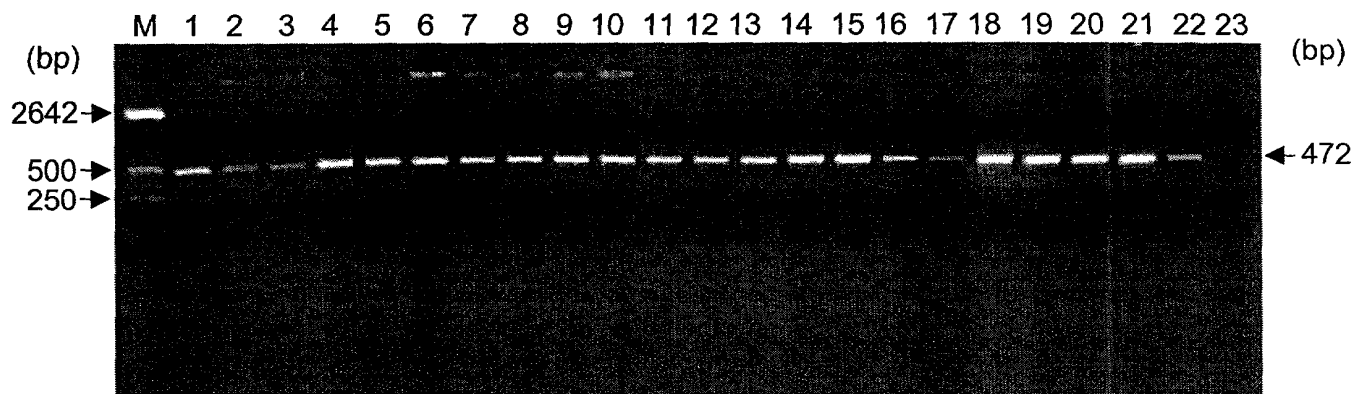


Figure 2

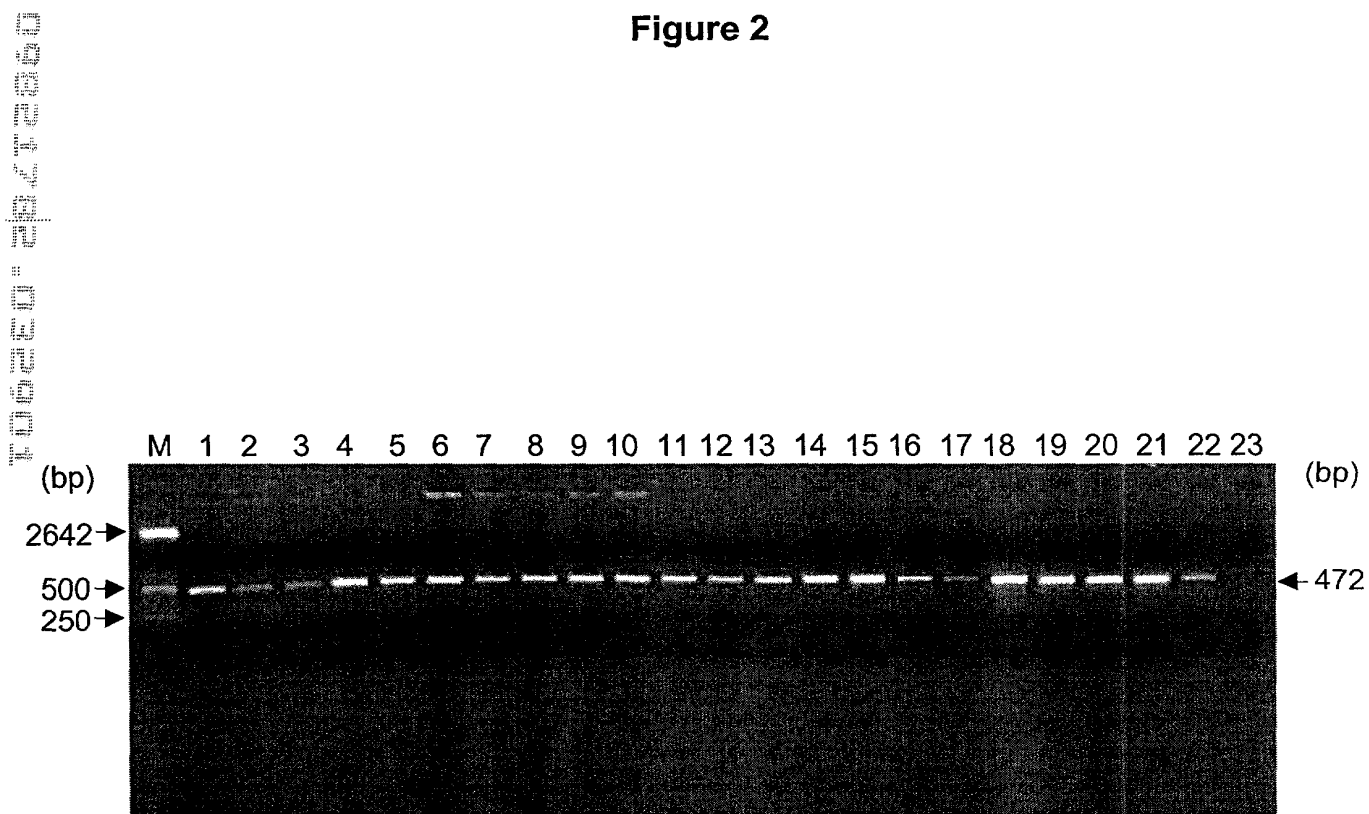


Figure 2

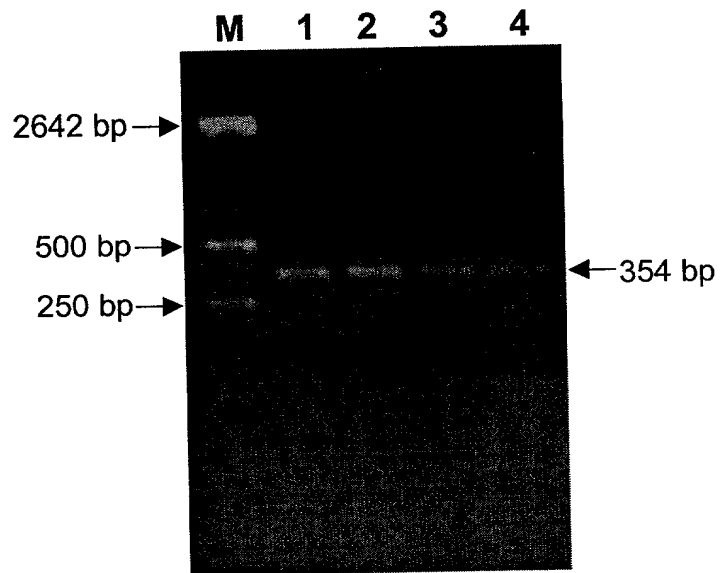


Figure 3

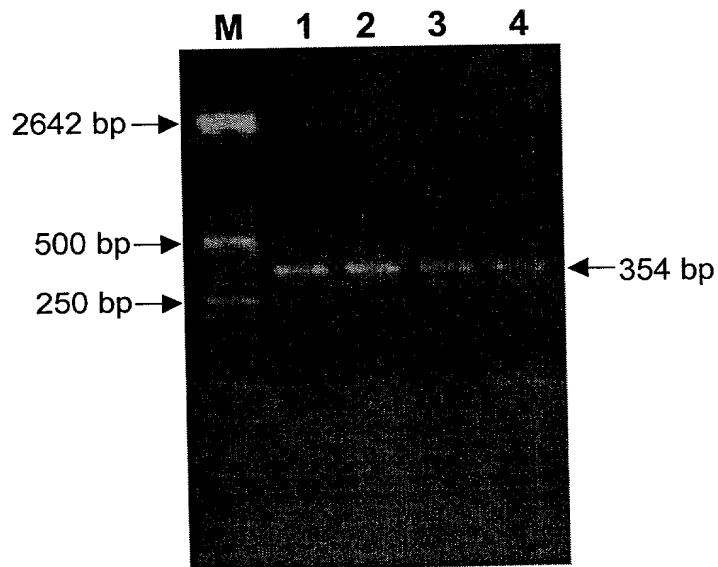


Figure 3

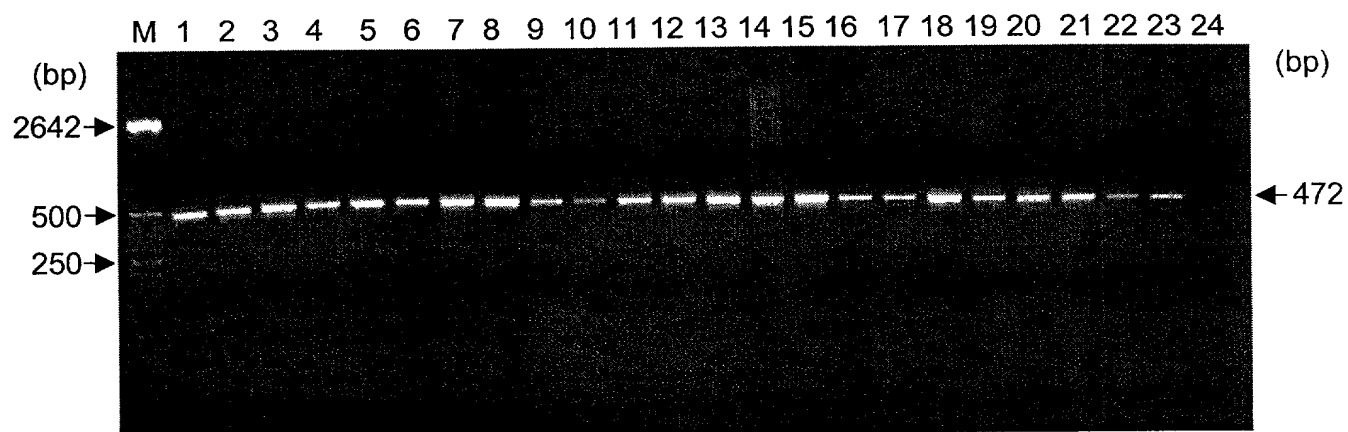


Figure 4

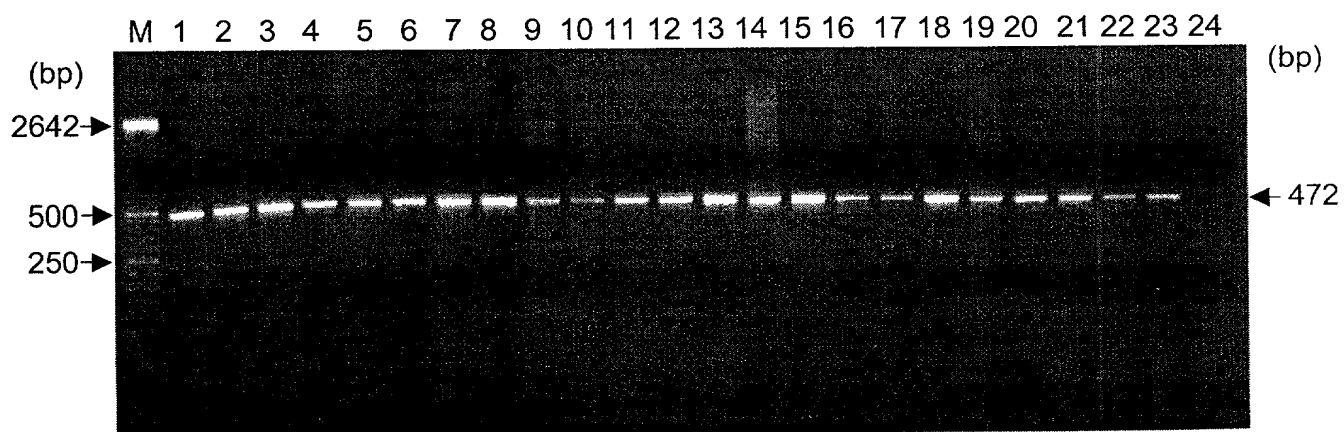


Figure 4